

ور بر معدد		ka <sup>na</sup>		Y		In the second					2.650	82.8	4													ar a jaggar		•	
			MEMORY I	EXTENS 28	SION				MULTI FIE		MTROC.				ME	EMORY M U29					MEHORY I	IIS (. V29	ND 4K)				MEMORY MIS		4X)
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تنبس	-	GHD 1	TO #22-98	12	X6	MB1 TO M22-88	5 848	GMDg1	10 526-BI	17	73163802		18	TH		2	AM	[1844]	1	MS12*	[1842]	1		(tray)	1	HS##	[1841]	2	148978
1	****	MARKET		4			3	PSN #5	- 70 526 <b>-9</b> 3	4	PSVBA	TO 526-94	3	TH-	[1984]	4	A01		3		\(\mathref{\psi}_{\psi}\)	1	NOR	[1782]	3			11	MESS
17	, N	500-	[1841]	6	Ag	<b>8•</b> [18A4]	5	EXTK.	(9A2)	6	INDFF	(6A3)	5	MCIW	• [884]	6	A92	[1844]	5	M513*	[18A2]	6	MB13	[18A3]	5	4501	[18A1]	6	M#18
		1512+	[1842]	8	AØ	114 [1844]	7	EXTOR	(1481)	8	1968	[1782]	1,	WEAT	EZ	8	Ag3	[1884]	7			8	MØ18	[17A2]	7			8	MBØ1
		1591 *	[1841]	10	Ag	12* [1844]	9	EXT 214	(1481)	10	1978	[1783]	9	INHI	8	10	A94	118841	9	MS14*	[18A7]	10	MB14	[18A3]	9	MS#2*	[18A1]	10	MØ28
	11 1	1513*.	[1842]	12	ΔQ	[1864]	11	EXTØ2	(14A1)	12	1988	[1784]	. 11		•	12	Ags	[1864]	11			12	. MØ28.	[17A2]	.11			112	M8Ø2
1-	13		[1841]	14	AD	(1884)	13	EXT 93	(14A1)	14	JMP+	[782]	-13		12.14	1.4	199	[1884]	13	MS15*	[1,802]	14	M815	[1843]	13	MS@3+	[18A1]	14	MØ3B
		1514.	[1842]	16	AN	5* (1884)	15	EXT04	(1581)	16	162.	[782]	15	MEIR	• [884]	4 16	410		15			16	M938	[17A2]	15			16	MB@3
		1503+	(18A1)	18	Ag		17	EXTOS		18	PUDE	[5A2]	17	STRO	BE	18	ATT		17	MS16.	[18A2]	18.	MB16	[18A3]	17	MS#4*	[1841]	18	MØ48
-	ببعه	1515+	[18A2]		AG	I7* (18A4)	19	***		20		[5A2]	19	R/R	American Communication	50	Ago		19			20	MØ48	[1783]	19			20	ME Ø4
		1594*	[1881]	22	Ag		21	EXTØ?	(15A1)	. 22	EP1	[544]	21	RGAT	Έl	22	A97		21	MS17*	[18A2]	22	MB17	[1843]	21	MS@5*	[1841]	22	MØ58
		Sto-	A LIBARI	24	_		23	EXT DO		24	8278	[584]	23	WRIT	'E	24	A98	[1844]	23			24	MISE	[1743]	23			24	MBØ5
		Gus	1841		A						EPR	[544]	25		) •	26			-	MS18*	[1882]	76	MOLE	[1783]	25	MSØ6*	[1881]	26	MERE
1.5	-	451.7°	(18A2]	7 28	A			EXTIB			TWFF.	[384]	27			28		**	27			28	Mars	[18A3]	27			28	1496B
	-	1586*	[1881]		ME		29	-			OUTER		29	1		30	1		29	MS19*	[1882]	3.0	MB19.	[1883]	29-	MS97*	[1881]	30	MØ78
		4518*	[1892]	32	ME	11B [17A2]	31	ABB*	118441	_	OUT#1					32			31		1. V	32	MB78	[17A3]	311			32	MB Ø7
		4507	[1681]	-	116				118441		+	~~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>				34			33	MS20+	[1882]	34	MBSB	11784)	33	MS#8*	[1881]	34	M8 Ø8
-		45190	[1882]	36					[1844]	-	OUT #3					36			35	1		14	M820	[1883]	35			136	MBES
1	-	MS@B*	[1861]	7,8	. 96				[1884]		OUT #4		37			38	1		37	7	[1882]	38	MB21	[1883]	37	M5#9*	[1881]	38	M898
,		HS20*	J18821	سينبنيب	M				[1894]		OUT #5					40	1		39	1		40	MESS	[17A4]	39			40	M8Ø9
		Rigg.	[1881]	47	-			-	[1884]		<del></del>		41	-	the state of the s	42	<del></del>		41	-	[1892]	42	MINTE	[1744]	A1	MS1@*	[1861]	42	MB19
-		M5 21**	[1882]	44		976 (17A3)			[1884]		7-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		43			44	1		43			44	MB22	[1883]	43			44	M1.08
		MS10.		46	_				[1884]	46	+		45	1	<del></del>	46	1		45	MS23*	[1882]	46	MB23	[1883]	45	#S11*	[1881]	46	M11B
-	-	M522*	[1882]		MI				[1844]	48	1		47			48	1		47			48	MIIB	[17A4]	47	·•••		48	M811
		MS11 *	[1881]		м		_	<del></del>	[1864]	50	-		49			5.0		<del></del>	49	1	(17A1)	50			40	ADDF1*	(17A1)	50	
	10000	N523*	[1882]	52		118 [1744]	I		[1884]	52	<del></del>		51			52	†		. 51	<del></del>		52	<u> </u>	·	51	ADDF 1		152	
		ADDFY			A AC	h\1°34	53	7.5	[1884]		+	[642]	53	1		54	1		53			94	STROBE	-	53	INHIB		54	STROBE
1	**	AÓDF 1	UZAII_	-		TWX (884)	55						55		TO M24-98	56	<del>-  </del>		55		TO M21-#8	56	GND TO	0 M25-98	55	GND	TO M24-Ø8	-	GND T
-			[18A2]	, 58	-	B12 (18A3)	57	JPSME JPSME	<del></del>				57	-	10 112 50	58	+		57		(0 /2) PE	58	+54		57	+50		58	+5V
	Accessoration	Mega		60					7124E		EPØ	[544]	59	-		60			59			100	-v	<del></del>	59	-V		60	-v
+		MP @1		62				INTHE	1.2067	62			-			100			7.7			1.00	Laine in the single		1 22			-	<u> </u>
		LE#2	[3692]	64	-	814 [1883] 815   1883		FLMEN		64	CPPU.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-1	1.34.13	and the second	.4%					And the second second			2	5-5				
		Mo <b>94</b>	118821	66		816 [18A3]	65			66		[443]	$\dashv$																
, j		<del>,</del>	(18A2)		-	11077	<u> </u>	Br.		68	ADUI I	(883)				•					· ·						7.94		
		11.05	(18A2)	68		B17 [18A3]		- FULE	(16A2)		1 4001 9	<del></del>	$\dashv$																
- 1		MHBP.	[1882]	-	M			1 1 1	(16A2)	72	ADDF1		-										*						
1 -	1	Mou7	[1562]	72	_	1619 [1863]		. DIN*	(683)	74	SHE 1 *							*						*					
-	73	P698	[18B2]	74		4820 [1883]	1		[1782]			(244)																	
4.		MBB9	[1 <b>A</b> B2]	76	-	1883		<del></del>	[3B2]	76	SMF#	(2A4)	-1																
-	*****	M810	[1882]	78		1822 [1863	-		[1783]	80	8P5*	[5A1]_													•				
-	79	M311	[1882]	09	1	4823 [1863]	79	18026	[781]	80	BP6.	[583]	_								**								

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BOTH OF A PATENTABLE AND UNFATENTABLE NATIONAL ARE EXPRESS RESERVED TO NUCLEAR DATA, INC."

11.01 1.22-72 1265 11-29-71 174 J DATE

B

55 XGND2 TO M25-8

B

1 - ALL DIODES ARE G964 OR EQUIVALENT, EXCEPT AS NOTED.

82

84

BD PWR

EPRDY\*

86 XGND2 TO M25-8

119A41

(381)

P5V83 T0

CND85 10

NC - NO CONNECTION

\$26-83

\$26-85

2 - ALL RESISTORS ARE 1/AW, ±5%, EXCEPT AS NOTED.

3 - ALL CAPACITORS ARE pf. EXCEPT AS NOTED.

4 - I.C. VOLTAGES, EXCEPT AS NOTEQ:

14 PIN DIP, PIN (7) GND: PIN (14) +5V

16 PIN DIP. PIN (8) GND: PIN (16) +5V 24 PIN DIP, PIN (12) GND: PIN (24) +5V

5 - THE FOLLOWING SYMBOLS/NOTATIONS ARE USED ON THE DIAGRAM AND/OR PRINTED CIRCUIT BOARD ASSEMBLY.

IC - INTEGRATED CIRCUIT SAT - SELECT AT TEST

(P1) - PRECISION RESISTORS 100PPM 1/8W, 11% METAL FILM Q - TRANSISTOR

( ) - IC PIN DESIGNATION - DC COMMON - CONNECTOR DESIGNATION

SCLUML 28

(7B3)

PSV84 TO \$26-84

86 SNQ86 TO 526-86

-FB-- FERRITE BEAD

-> - GERMANIUM DIODE

- STLICON DIODE - ZENER DIODE

- TUNNEL DIODE - SELENIUM DIODE ADC\* — SIGNAL NAME

[4A2] — SIGNAL SOURCE DRAWING LOCATION, OR

(4A2) — SIGNAL LOAD DRAWING LOCATION

TONE LOCATION ——P.C. BOARD -P.C. BOARD NAME - SHEET NUMBER TI.C. PIN CONNECTOR PIN-

-CONNECTOR -CONNECTOR PIN .C. BOARD NAME I.C. LOCATION

NUCLEAR DATA INC POST OFFICE BOX 481 PALATINE ILLINOIS 60067

CHECKED BY: RL

SIGNAL

[1792] [1842] [17A2]

[17A2]

[18A2]

[17A2]

[18A2]

[1783]

[1842]

[17A3] [16A2]

[1882] 117A11 J17A31 [1882]

[1882] [1784] 117841

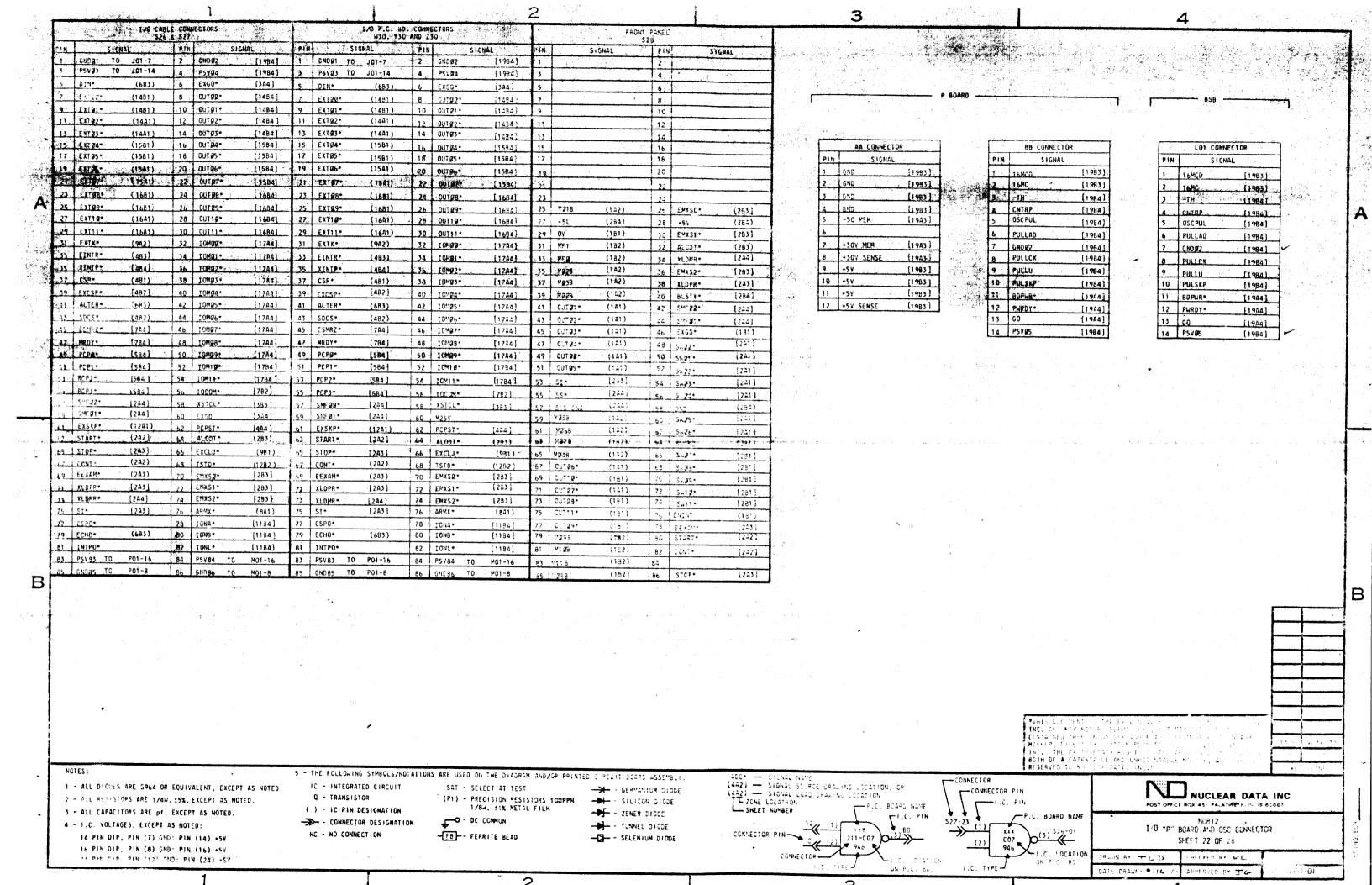
[1882]

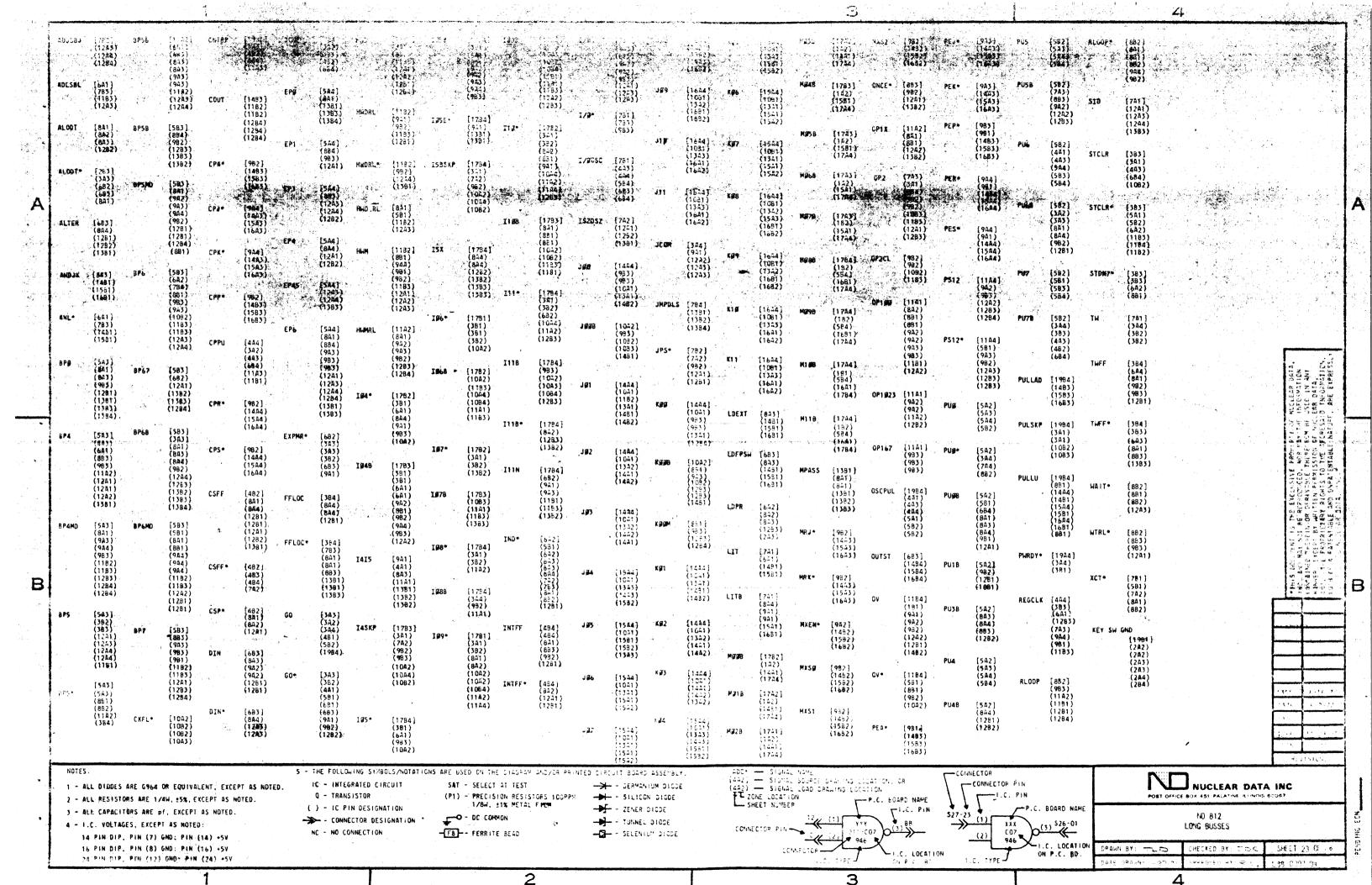
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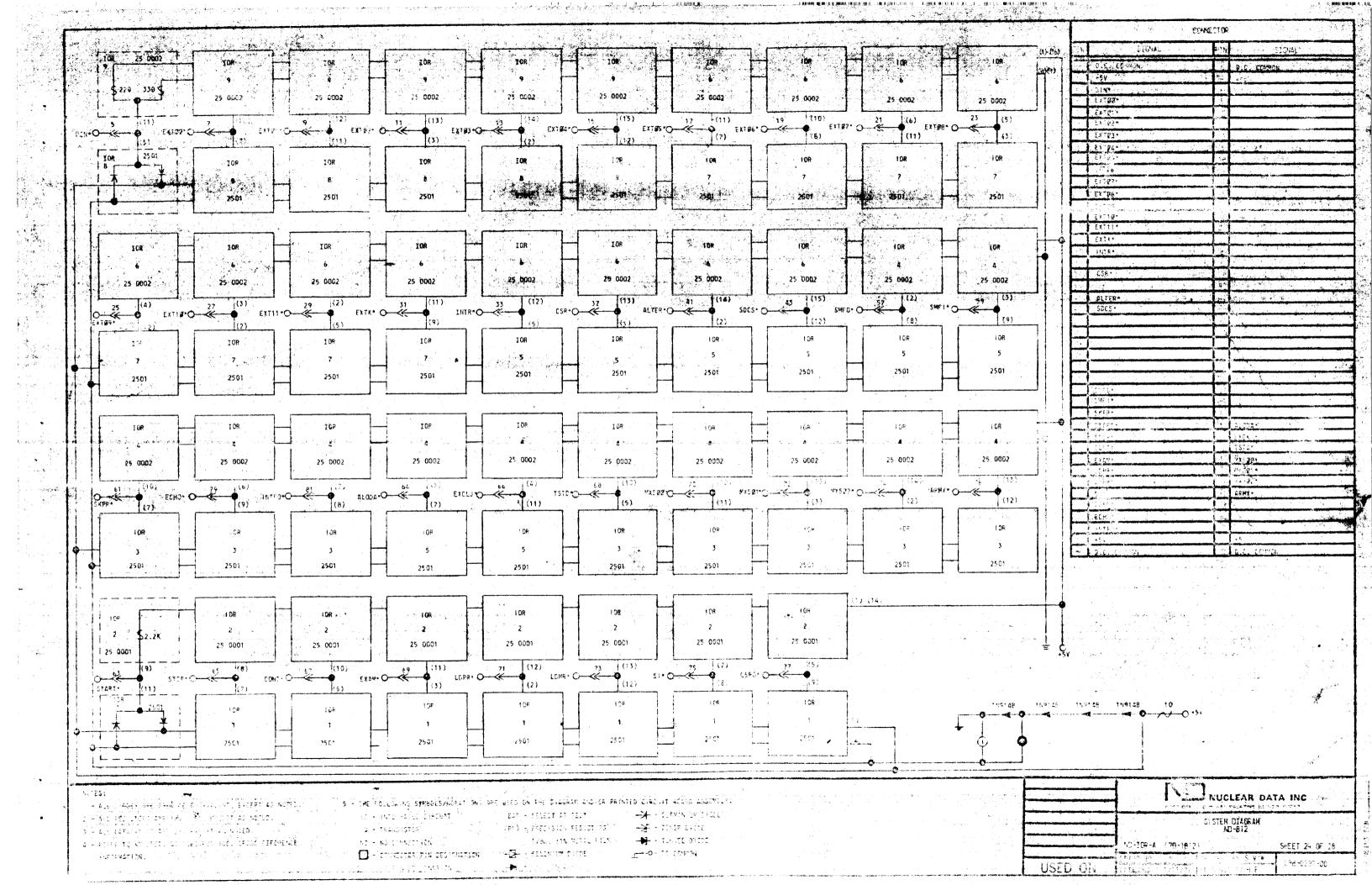
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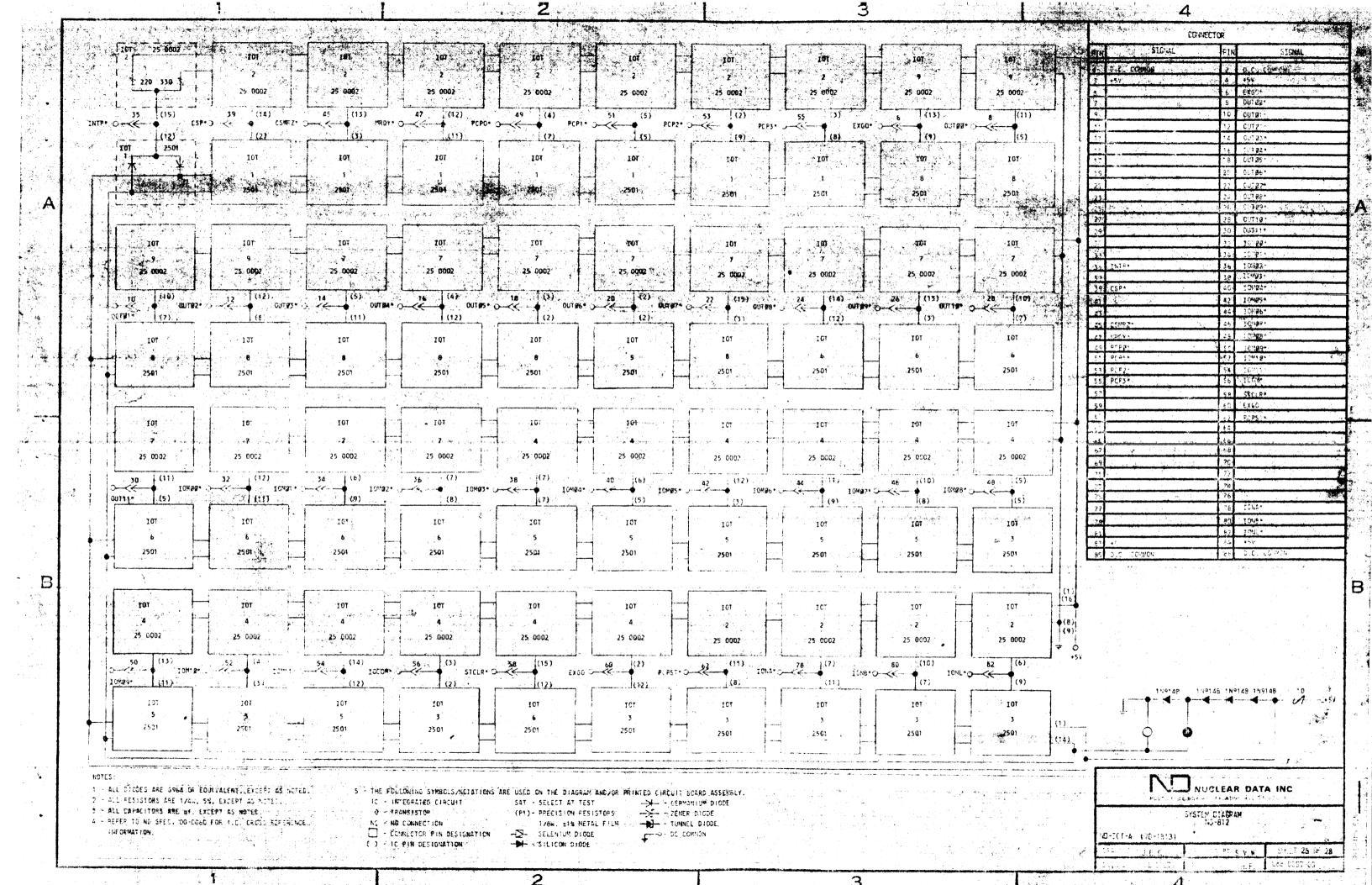
TO M25-98

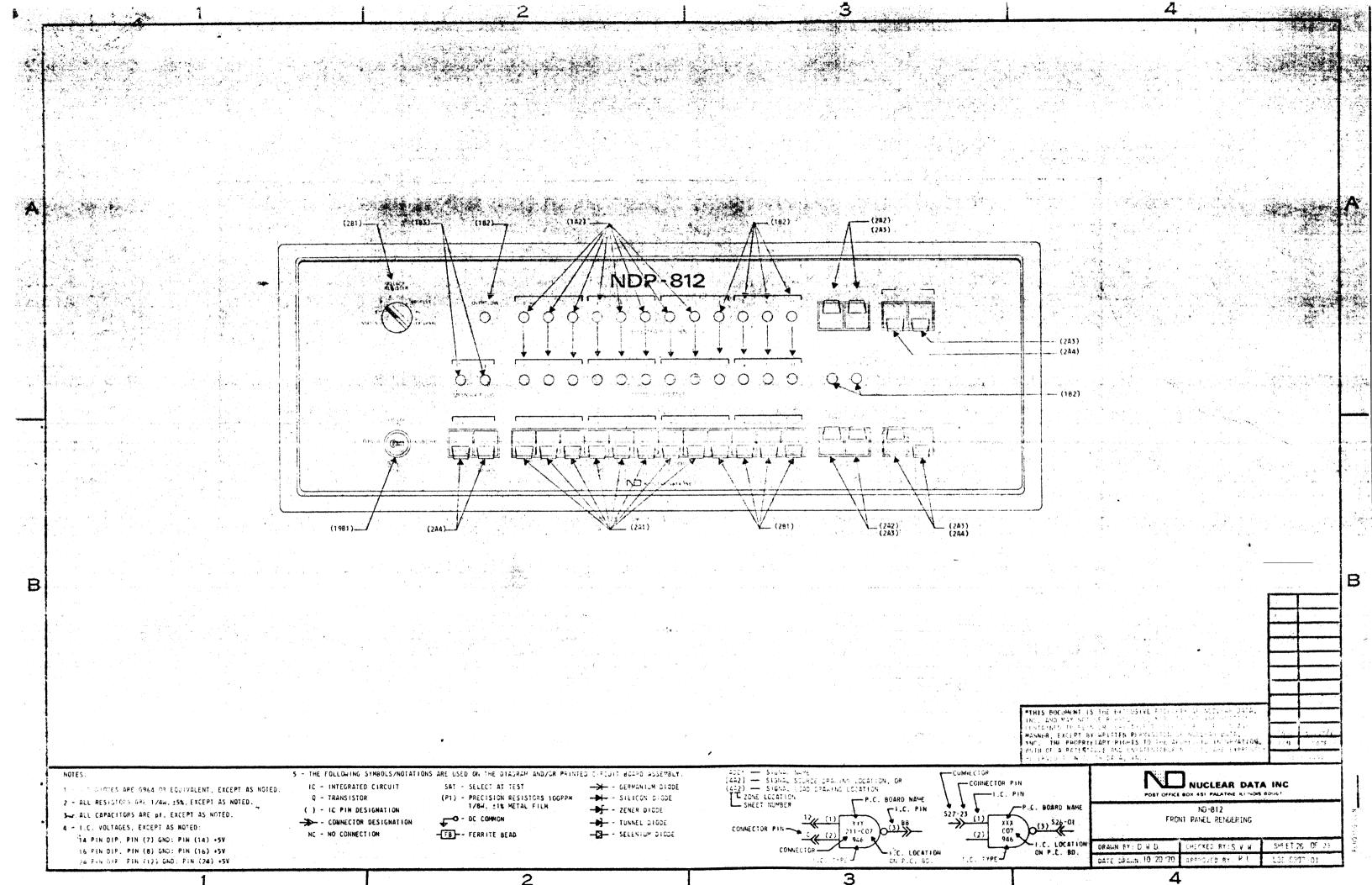
ND 812 MEMORY CONNECTORS SHEET 21 OF 28 DATE DRAINIS-16-70 | SEFFICIED BY JG | L88-0397-02



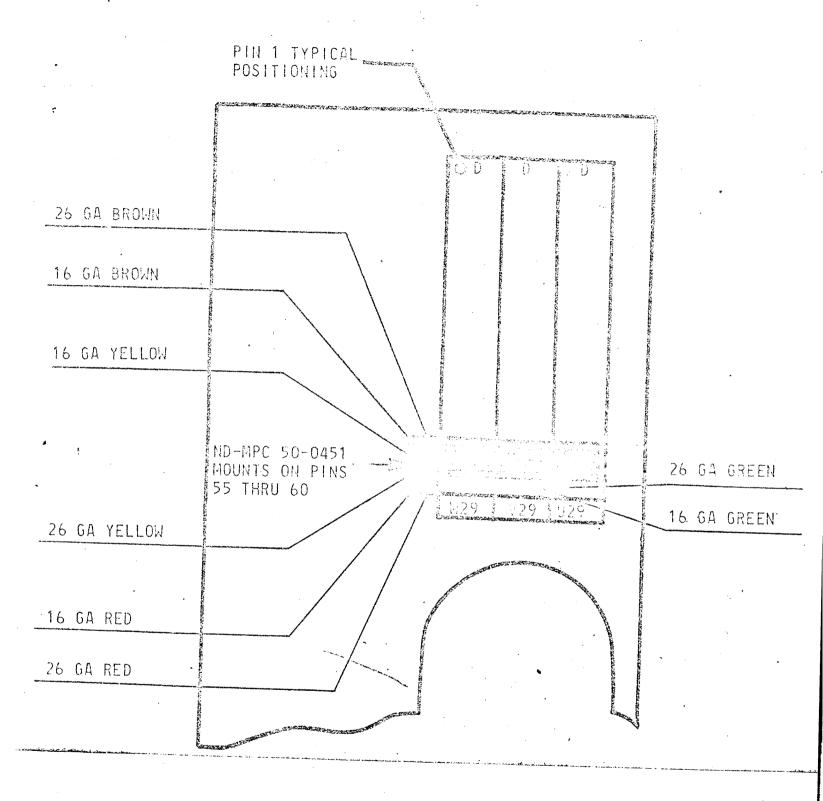








"D" DENOTES DOUBLE CONNECTOR



L88-0397-01 (SH 27)

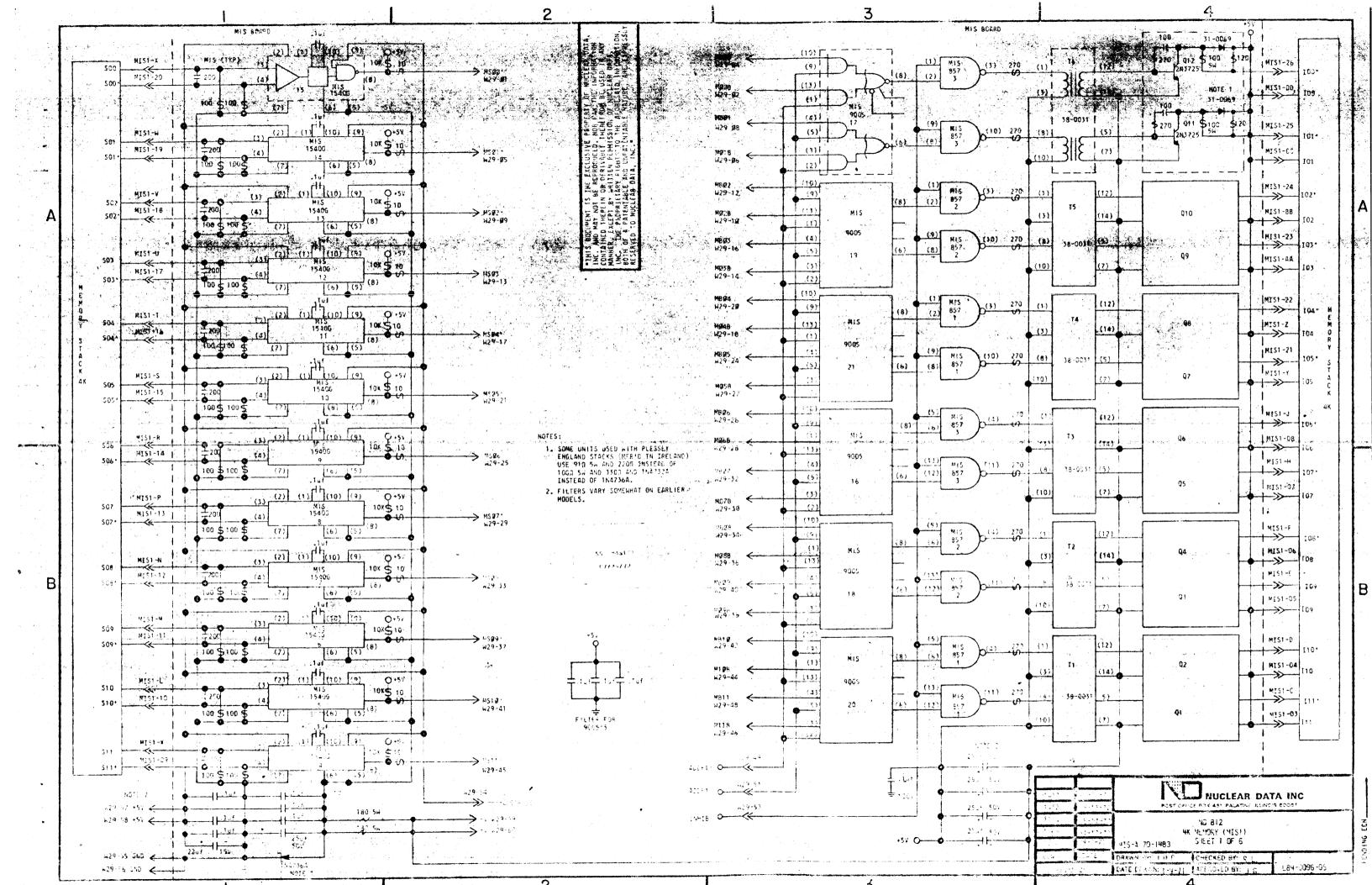
Figure 7-2. ND812, Bussing Diagram (Sheet 27 Of 28)

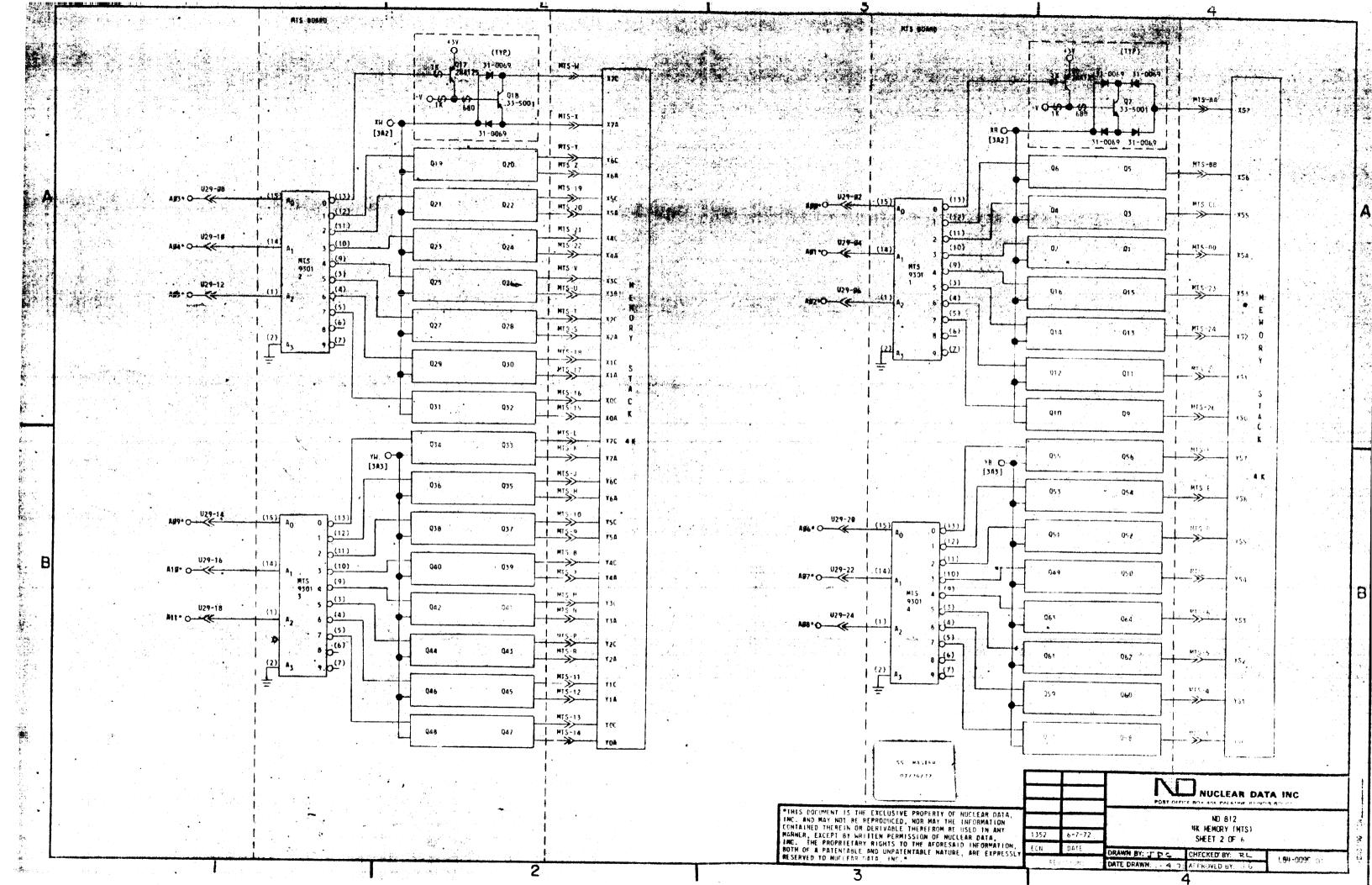
Normh:

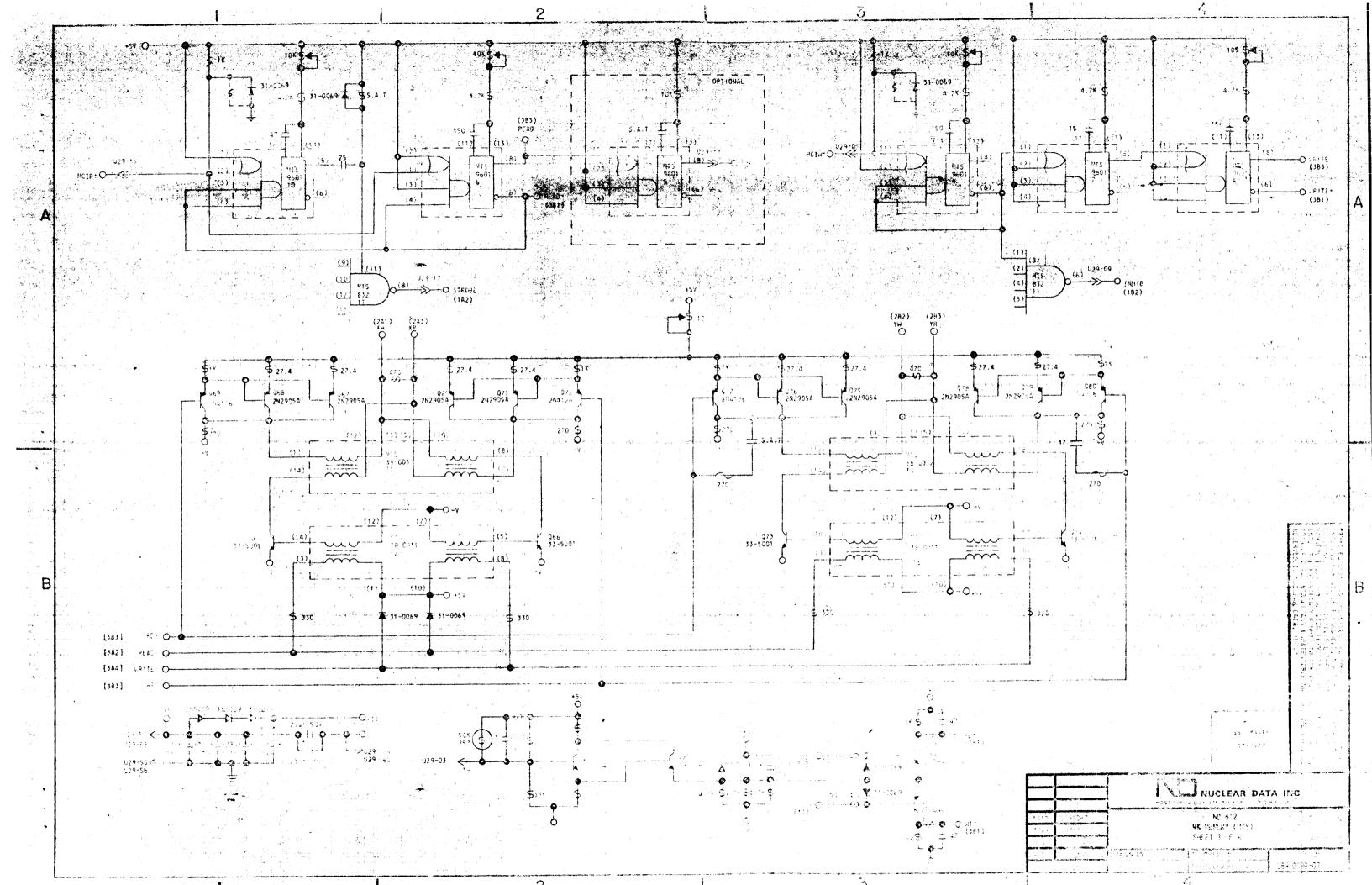
1 - "D" DEHOTES DOUBLE COMMECTOR.

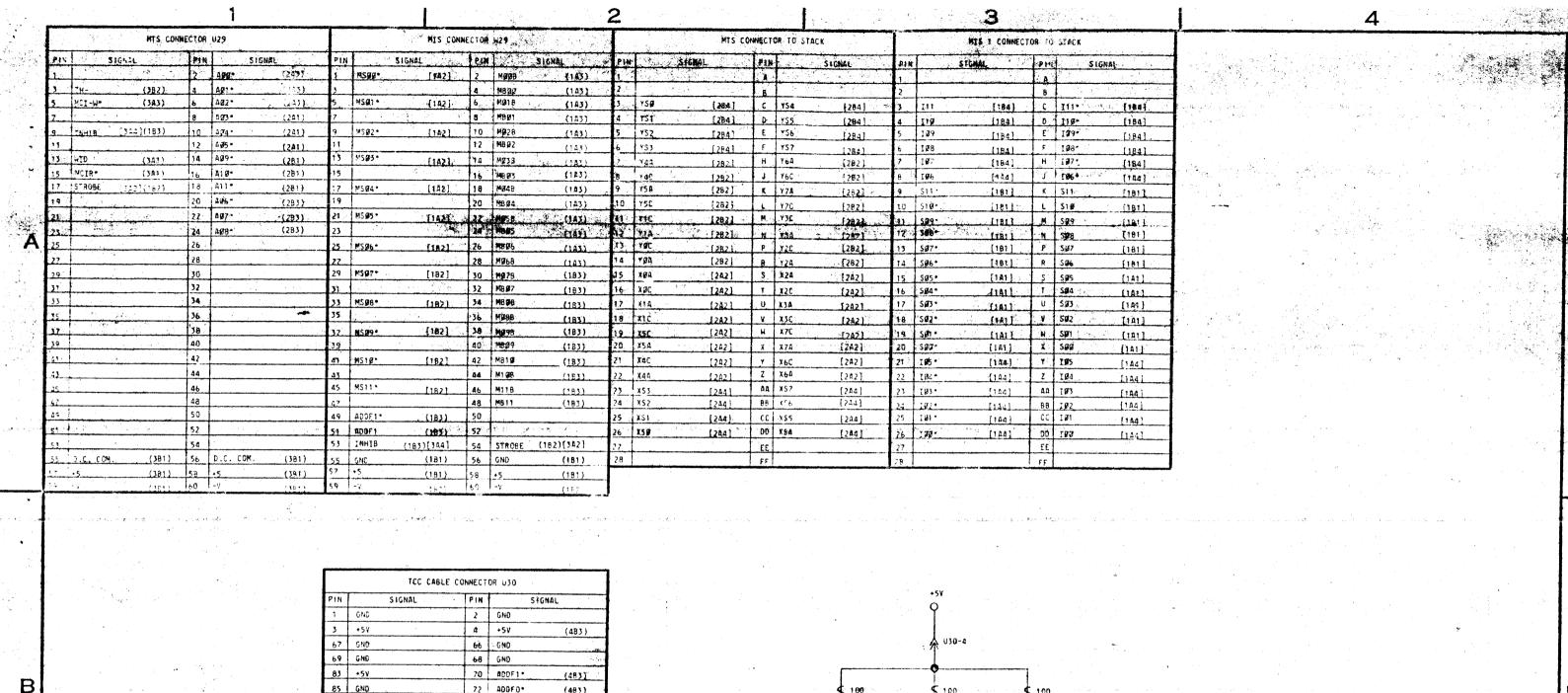
PHU 1 TYP. ~ POSITIONING \_L88-0397-00 (SH 28)

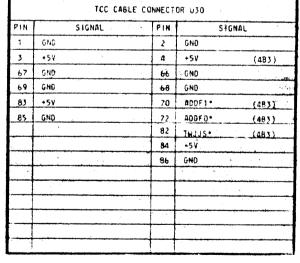
Figure 7-2. ND812, Bussing Diagram (Sheet 28 of 28)

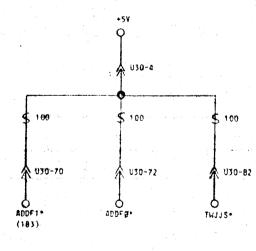












	FMG. AND NOV. NOV. CONTAINED FOR THE CONTAINED F	Company of the second of the s	on Ten (Men Modifich) GM of State (N. 497) GM of State (N. 497)		214 - 202
NECTOR -CONMECTOR P		NL POST OFFICE	NUCLEAR DATA		
1.0.					-
3 (11) X1X C07	- 10·31	. 4	NO-812 K MEMORY CONNECTORS		
23 (1)	O(3) \$26-01	CRAWN BY: J D C.		SHEFT 4	Œ

B

1 - ALL DIGGES ARE 6964 OR EQUIVALENT, EXCEPT AS MOTED.

2 - ALL RESISTORS ARE 1/4W, 15%, EXCEPT AS NOTEC.

3 - ALL CAPACITORS ARE DE, EXCEPT AS NOTED.

4 - F.C. VOLTAGES, EXCEPT AS NOTED:

14 PIN DIP, PIN (7) GND: PIN (14) +5V 16 PIN DIP. PIN (8) GNO: PIN (16) +54 24 PON C P. PON (121 ONO: PIN (24) +5V 5 - THE FOLLOWING SYMBOLS/NOTATIONS ARE USED ON THE GRADRAM AND/OR PRINTED DIRECTION BLAND WISEMBLY

IC - INTEGRATED CIRCUIT

Q - TRANSISTOR

( ) - IC PIN DESIGNATION - CONNECTION DESIGNATION

NC - NO CONNECTION

SAT - SELECT AT TEST

(P1) - PRECISION RESISTORS LOOPPH

1/8W, ±1% METAL FILM

FO - DC COMMON -FB - FERRITE BEAD - STETÉGN D-00E

-- TUNNEL DIODE -D- - SELENTUM DICOE

P.C. BOARD NAME

—COMMECTOR

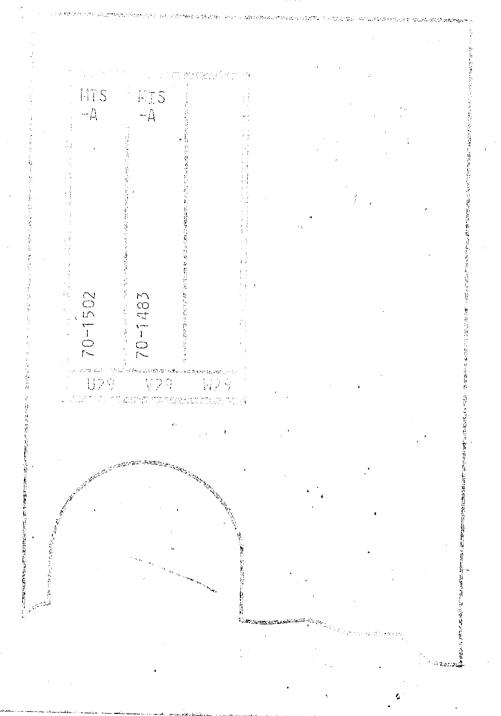
-> - SERMANTUM DICOE

- ZENER DIGGE

[442] - SIGNAL SOURCE, TRAVENS LOCATION, OR

(442) — SIGNAL LOAD BRAWING LOCATION
TO ZONE LOCATION

SHEET NUMBER



L84-0096-00 (SH 5)

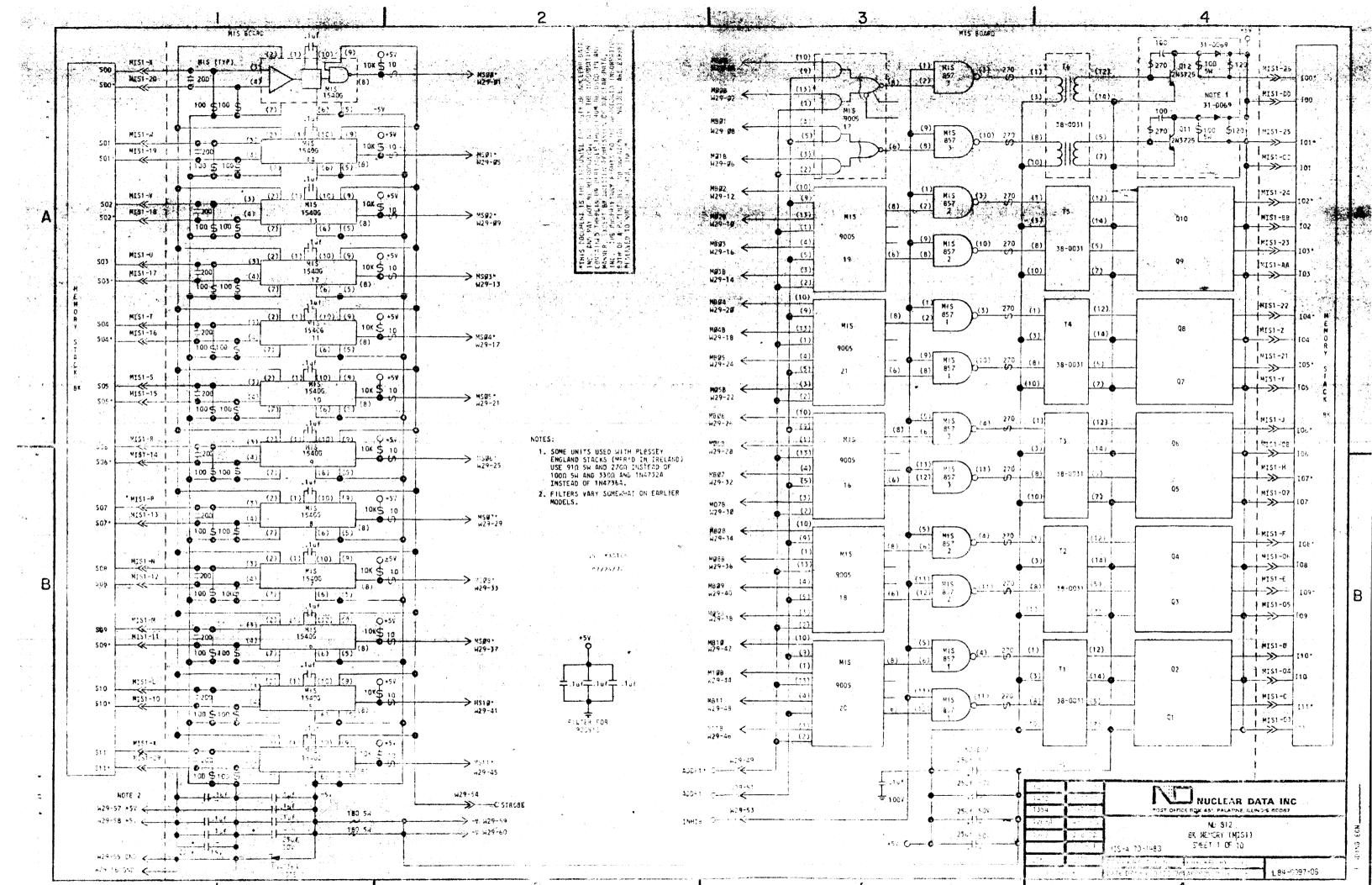
Figure 7-3. ND812 4K Memory, Loading Diagram (Sheet 5 of 6)

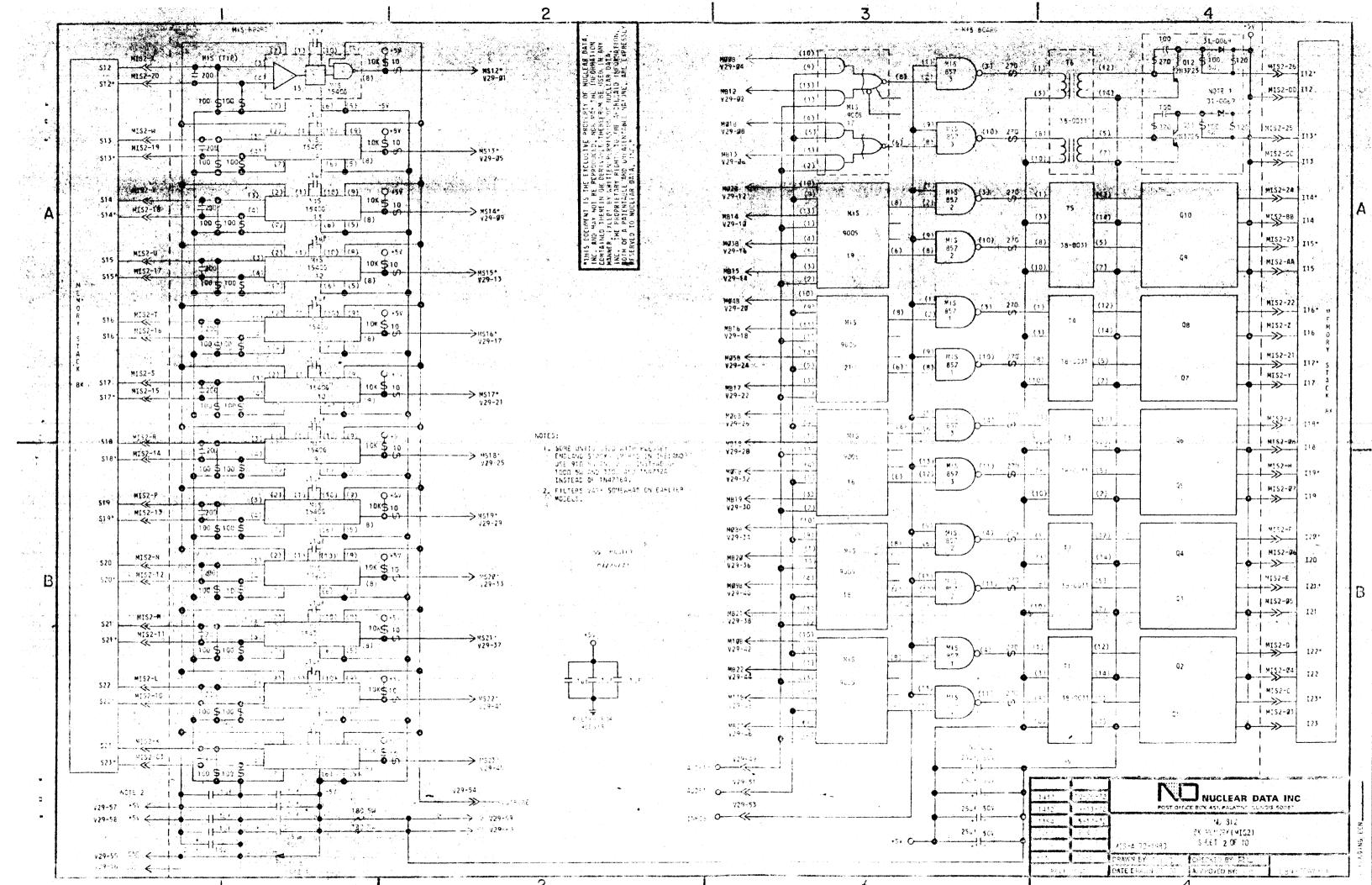
FPONT VILA

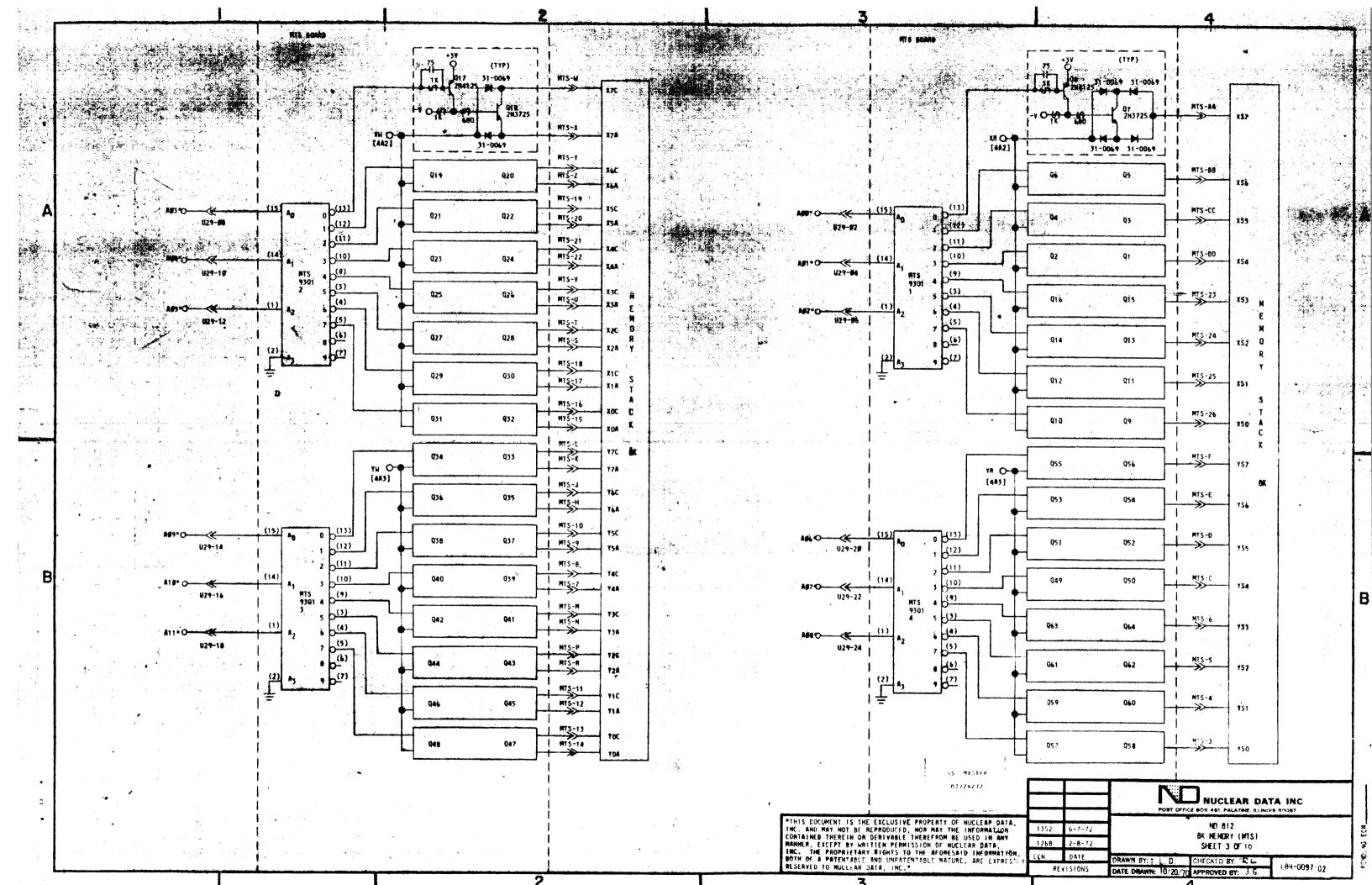
TCC -A 70-1703

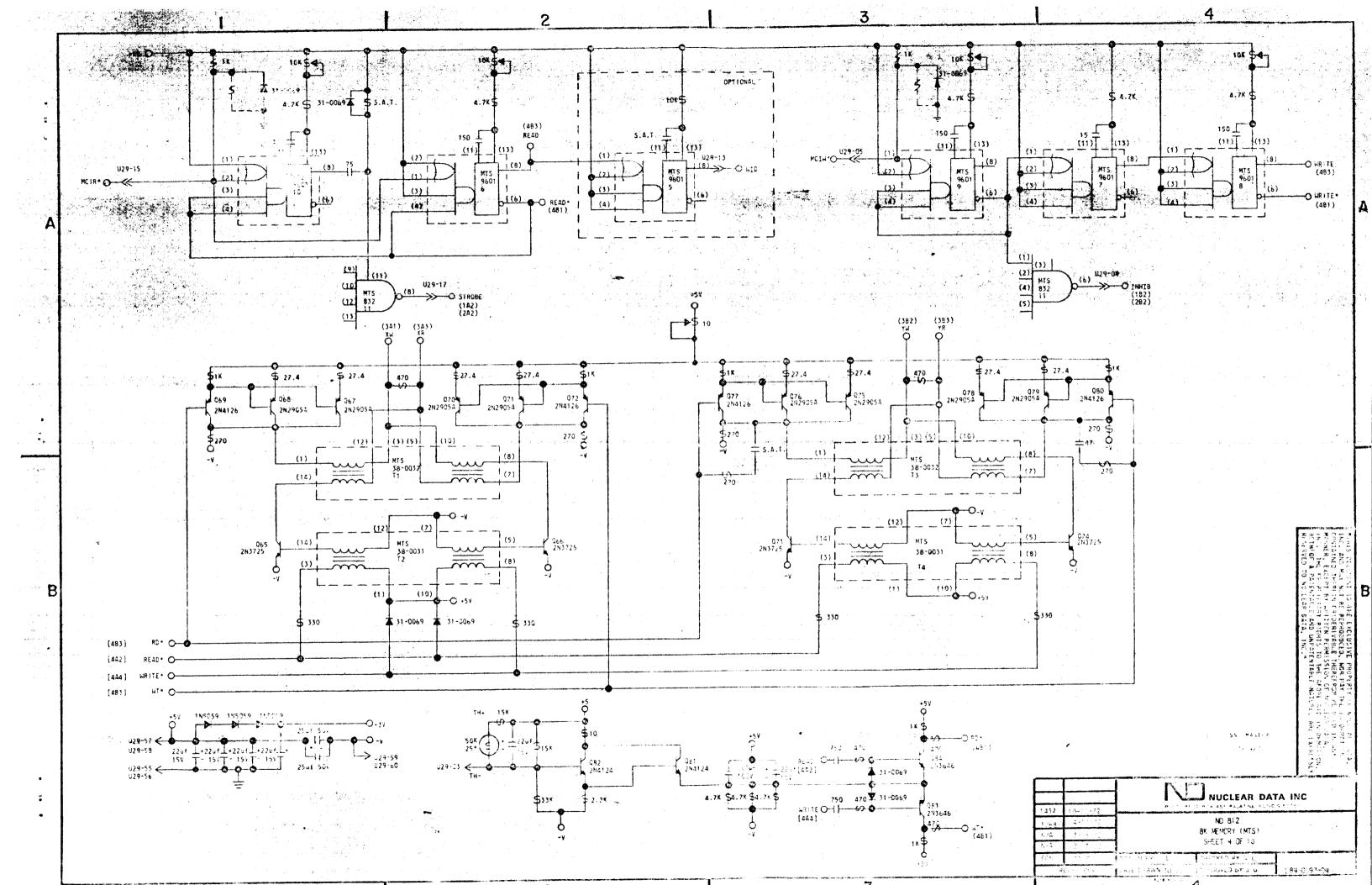
L84-0096-00 (SH 6)

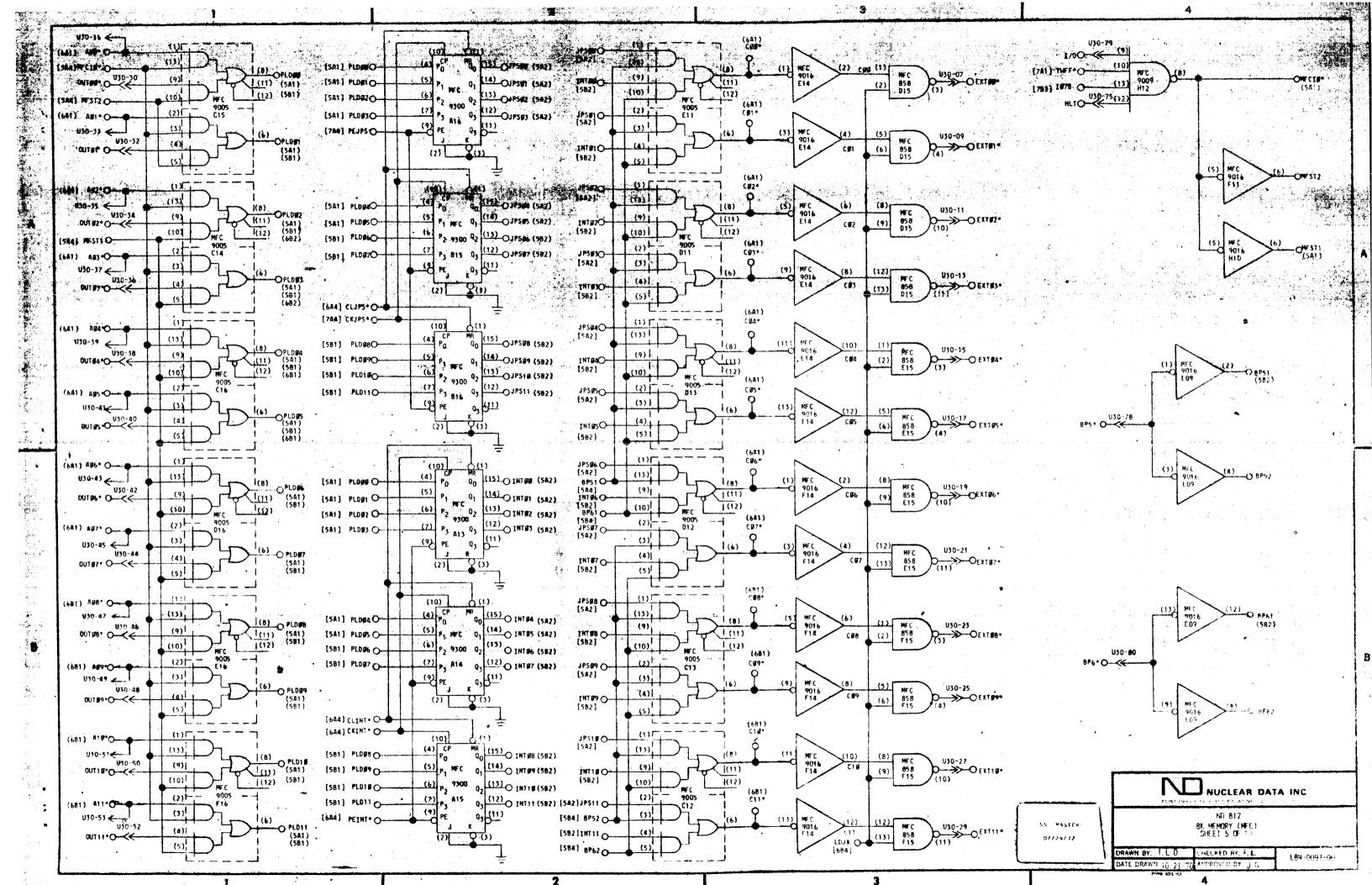
Figure 7-3. ND812 4K Memory, Loading Diagram (Sheet 6 of 6)

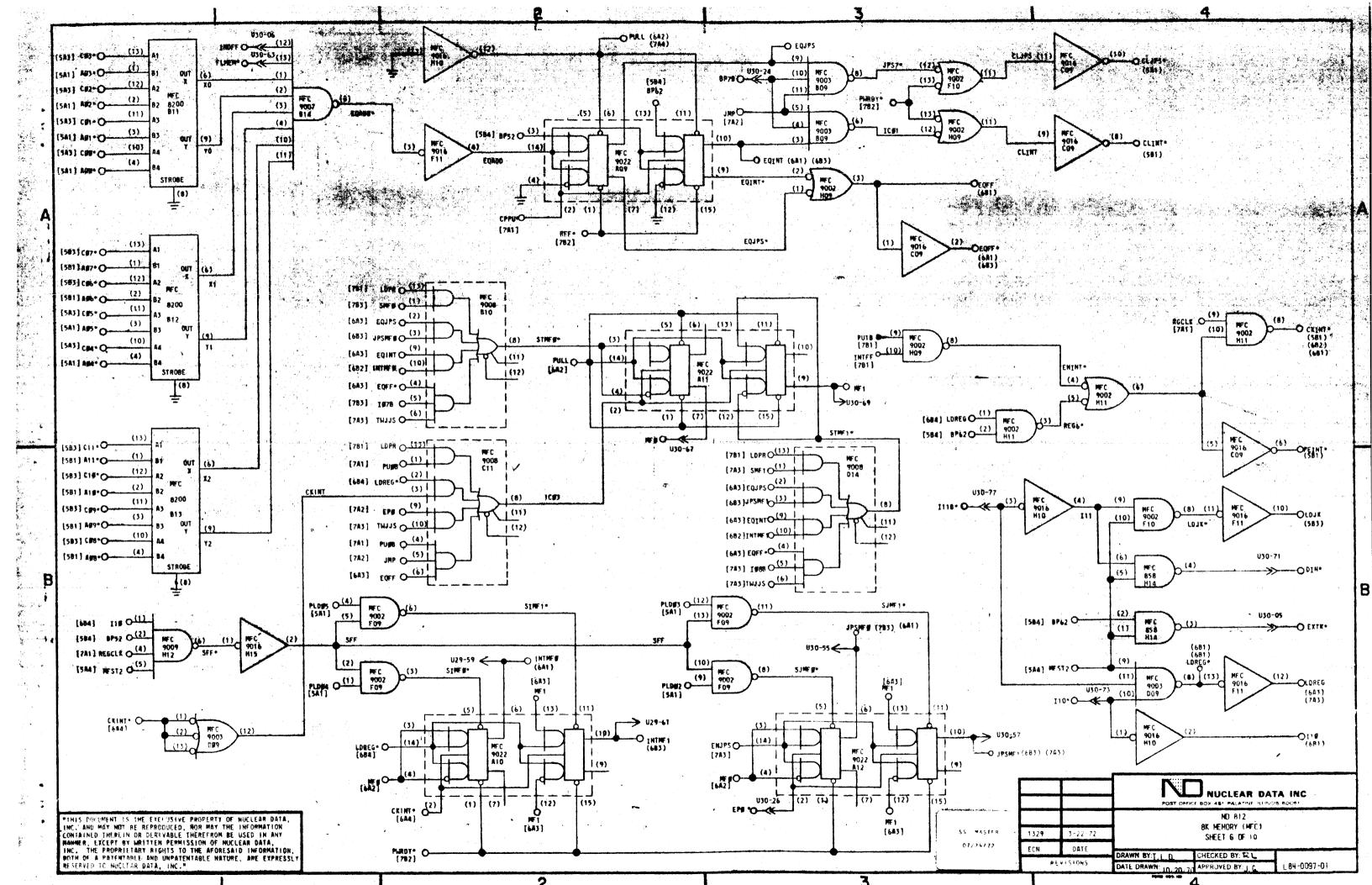


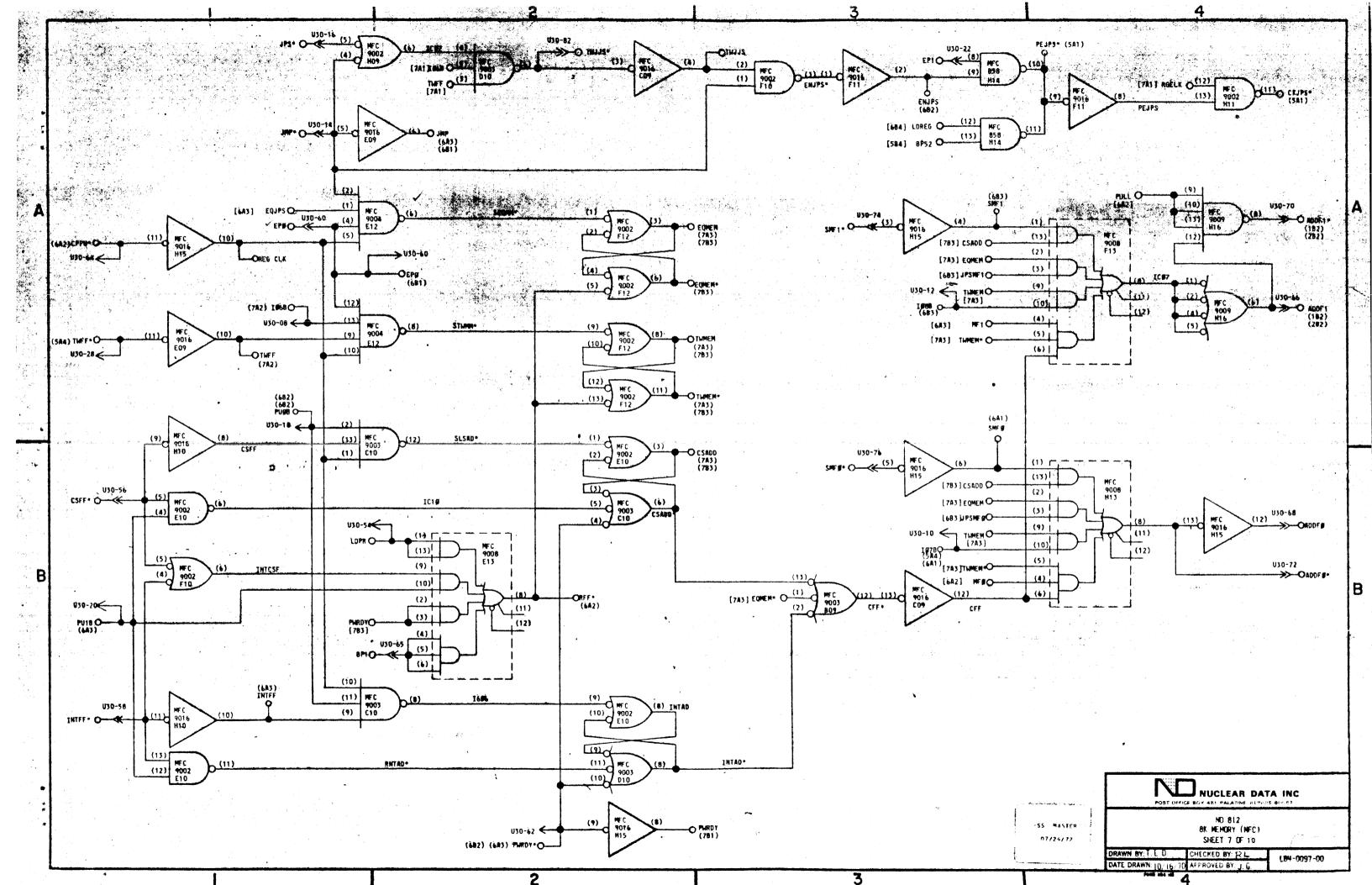


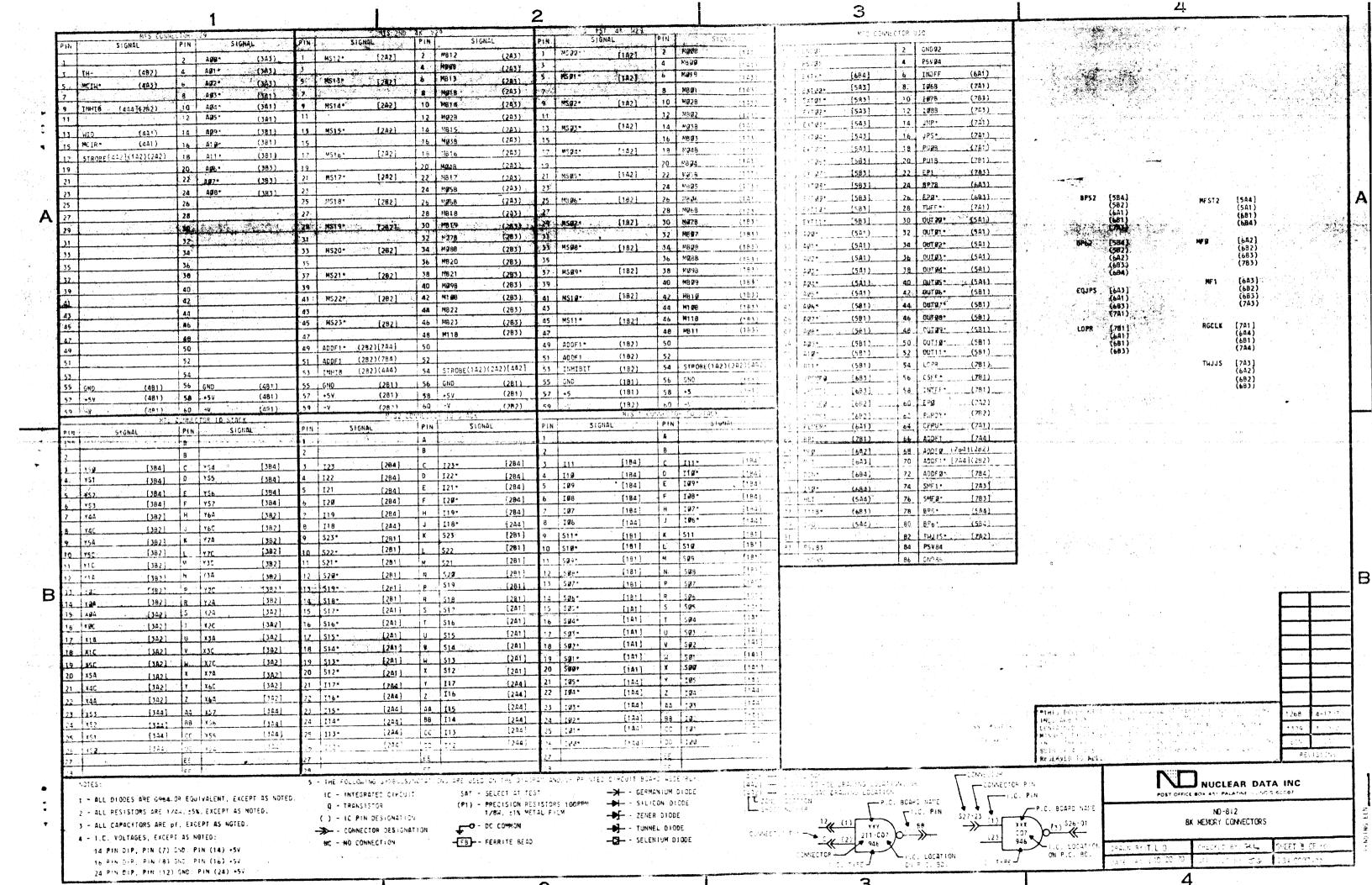




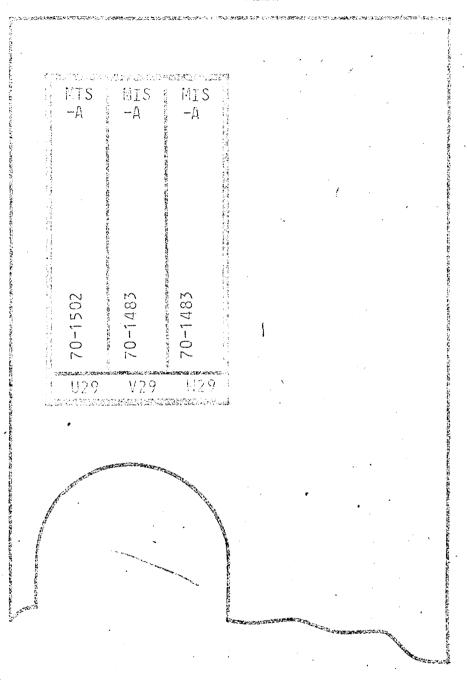








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L84-0097-00 (SH 9)

Figure 7-4. ND812 8K Memory, Loading Diagram (Sheet 9 of 10)

## -Д

Figure 7-4. ND812 8K Memory, Loading Diagram (Sheet 10 of 10)